	Application No.	Applicant(s)
Notice of Allowability	10/020,249	HOTTA ET AL.
	Examiner	Art Unit
	Vikkram Bali	2624
	VIKKI ani bali	2024
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to 6/29/2006.		
2. The allowed claim(s) is/are <u>1-8, 10-17, 21, 23-24 (renumbered as 1-19)</u> .		
 3. Acknowledgment is made of a daim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 		
1. 🛛 Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	C D Nation of later week	Detect Accellance (DTO 450)
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 	_	Patent Application (PTO-152)
2. In Notice of Draitperson's Patent Drawing Review (P10-946)	6. ☐ Interview Summary Paper No./Mail Da	ate .
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 		ment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Statem	ent of Reasons for Allowance
o. Diological Material	9. Other	

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Richard A. Gollhofer, #31,106 on 7/25/2006.

The application has been amended as follows:

Cancel claims 20 and 22.

Amend claim 1 as follows:

1. (currently amended) A character string recognition apparatus, comprising:

a key character code extraction unit automatically extracting a code string of a key word which is a node of a character string from a character string category to be recognized and expressed as at least one character code, by extracting at least one of a first character having a first predetermined number of occurrences among a first set of character strings to be recognized, a second character having a second predetermined number of occurrences in a character string unit, and a second set of closely associated characters as the key word;

a key word extraction unit separating an image of the character string into images of individual characters, recognizing the individual character images and extracting as key word characters, a string of characters corresponding to the code string of the key word;

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a partial area extraction unit extracting a partial area falling between extracted key words from the image of the character string; and

a recognition unit holistically recognizing a character string in the partial area extracted

by said partial area extraction unit.

Allowable Subject Matter

2. Claims 1-8, 10-17, 21, 23-24 (renumbered as 1-19) are allowed.

3. The following is an examiner's statement of reasons for allowance:

Per the applicants extensive amendments and the arguments filled on 6/29/2006 all the rejections to the claims have been withdrawn and the claims are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vikkram Bali whose telephone number is 571.272.7415. The examiner can normally be reached on 7:00 AM - 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on 571.272.7778. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Vikkram Bali// C Primary Examiner

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vb July 25, 2006